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500,000 YEARS AGO THE EARTH OPENED

Cracking and sputtering, it released liquid rock and rivers of fire across the landscape. Intermittent eruptions over thousands of years layered the land, leaving intricate caves, cones, craters, and black, jagged blankets of lava. The Modoc called this "the land of burnt-out fires." Tule Lake and Lava Beds were then, and are today, the center of their world.

Lava Beds National Monument protects a variety of well-preserved geologic features, including lava tube caves (above left) and Gillem Bluff in the distance.

This can be a forbidding place, a world foreign to outsiders. The Modoc and their ancestors lived in this rugged land for over 10,000 years. Following the rhythms of nature, they moved freely across their homeland until they were forcibly removed.

The blazing of the Applegate Trail through the heart of Modoc territory was the beginning of the end for the traditional Modoc way of life. Increasing numbers of white settlers claimed ancestral Modoc land, conflicts escalated, and both sides resorted to violent attacks. By the 1860s settlers demanded area tribes be moved to the Klamath Reservation in Oregon. The Modoc reluctantly signed a treaty, but consistently requested a reservation

in their homeland. Poor conditions and disagreements with other tribes on the reservation convinced some Modoc to return home. Broken promises, bitter resentments, and distrust made negotiations impossible.

The Modoc War began on November 29, 1872, when troops from Fort Klamath tried to force the resisting Modoc back to the reservation. They fled to the natural fortress of the lava beds, to what is today called "Captain Jacks Stronghold." In April 1873 peace talks began. Toby Riddle, (right) a Modoc woman married to white settler Frank Riddle, served as an interpreter between the Modoc and the army. Kientpoos (Captain Jack) wanted his people to be allowed to stay in their homeland.

He also wanted peace. Modoc society ruled by consensus. Remembering the 1852 slaughter of 30 members of their tribe, a majority voted to eliminate the peace commissioners. On April 11, 1873, peace commissioners Gen. Edward Canby and Rev. Eleazar Thomas were killed. Gen. William T. Sherman soon called for the "utter extermination" of the Modoc.

For six months 1,000 troops and volunteers fought to capture fewer than 60 Modoc warriors and their families. Those who resisted were exiled to the Quapaw Agency in Oklahoma.

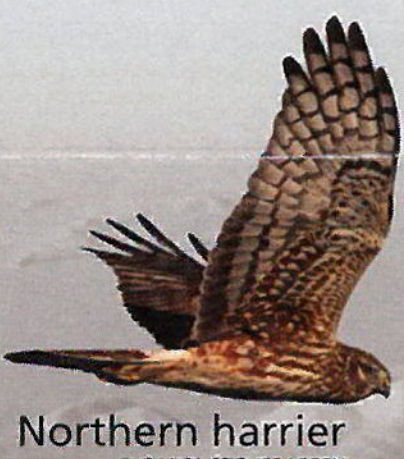


Captain Jacks Stronghold
NPS
Modoc leader Kientpoos (above right), called Captain Jack by settlers, refused to accept the poor conditions on the reservation. He felt by returning to their homeland

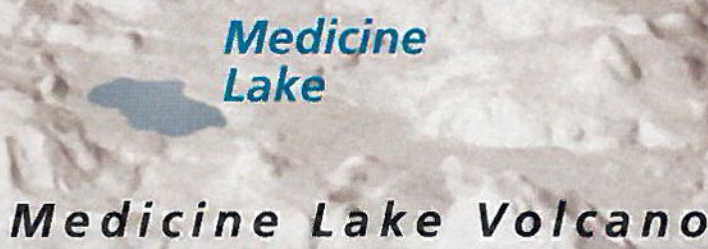
and traditional ways his people could have a good life. Kientpoos surrendered on June 1 and was later hanged with three others.

MEDICINE LAKE VOLCANO

Medicine Lake is a shield volcano that has been active for 500,000 years. Its eruptions, from nearly 520 surface vents, have been gentle rather than explosive. This has resulted in a low, gently-sloping, shield-like profile. Today you can see evidence of over 30 separate lava flows throughout the park.



Northern harrier
© CAROL ETCHUBA/REX



Multiple eruptions from surface vents created most of the lava tube caves in the park.

Lower Klamath Lake (former extent)

Lost River

Gillem Bluff

Tule Lake (former extent)

Starting in 1910 most of Tule Lake was drained by the Bureau of Reclamation to create farmland for homesteaders.

Captain Jacks Stronghold

Petroglyph Point

The Peninsula

Mule deer were a staple in the Modoc diet. Men used dogs, fire, and the topography of the lava flows to aid in the hunt.

FROM LAVA TUBES TO CAVES

Eruptions occurring 30–40,000 years ago formed over 700 lava tube caves found in the park. Lava tubes form when streams of hot, flowing lava start to cool. The center of the stream stays hot and continues to flow as the outside begins to cool and harden. The hot lava drains out, leaving a pipe-like cave. Multiple eruptions can stack caves on top of one another, creating multilevel caves. When a lava tube ceiling collapses, it opens access to the cave below.



Lava tube in Hawai'i Volcanoes National Park, 1972
USGS / PHOTOLAB

LAND OF BURNT-OUT FIRES

The Modoc life and culture was perfectly tuned to this environment and the richness of the resources it provided. They lived in semi-permanent winter villages along Lost River and Tule Lake. Each year as winter turned to spring, they began a seasonal round of fishing, hunting, and gathering.

Ragged and rough, the terrain of the lava flows could be dangerous, but to the Modoc it was a sacred landscape. It provided bounty in the hunt and challenged those seeking power and knowledge through vision quests.

Usually not seen in the high desert, ferns can be found in cave entrances.



Melissa blue butterfly
© ROB SANTRY



Leanira checkerspot butterfly
© ROB SANTRY

Wocus (yellow pond-lily) seed was an important source of nutrition for the Modoc.

Wyoming Indian paintbrush
NPS

American pika
© BRUCKER / ADITTHESTARGAZER

Scabland fleabane
NPS / JESSE BAARDEN

Fragile fern
NPS / KATRINA SMITH

Western blue flax
NPS

Rock wren
NPS / NICO RAMIREZ

Yellow pond-lily
WIKIMEDIA COMMONS / H ZELL

Threadleaf phacelia
NPS

Make the Most of Your Visit to Lava Beds

Established in 1925, Lava Beds National Monument protects and interprets this volcanic land, its early human occupation, and the Modoc defense of their homeland. Learn about activities and trails at the visitor center.

Some roads outside the park are closed during the winter and early spring. Call 530-667-8113 to check road closures.

The visitor center bookstore has snacks, ice, flashlights, helmets, videos, batteries, books, and souvenirs.

Gas, firewood, restaurants, and showers are available in nearby communities of Tionesta, CA; Tulelake, CA; and Merrill, OR (20–40 minutes from the visitor center).

EXPLORING ABOVE GROUND

There is much to see and do at Lava Beds. Highlights include:

Mammoth Crater Impressive 36,000 year old vents that created lava tube caves in the area.

Symbol Bridge/Big Painted Cave Marvel at prehistoric pictographs and artwork.

Schonchin Butte Hike the trail to the fire lookout built by the Civilian Conservation Corps.

Fleener Chimneys View volcanic vents and spatter cones created by globs of lava.

Thomas-Wright Battlefield Visit the site of a decisive Modoc victory over the US Army.



Smoothstem blazingstar Schonchin Butte Trail

EXPLORING THE CAVES

Before entering a cave, you are required to obtain a permit at the visitor center or fee booth.

Many of the 700-plus caves have steep entry points, rocky trails, and, in some cases, very low ceilings. Over two dozen caves have developed entrances and trails. They vary in difficulty, length, and complexity. Start at the visitor center for screening, information, and to talk to a ranger about the caves.

CAVE SAFELY
Wear Protective Clothes Caves are about 55°F (13°C) year-round, however caves with ice are colder. Wear long sleeves, pants, and closed-toe footwear. Helmets, gloves and kneepads are recommended in moderately and most challenging caves.

Bring Enough Light Each person should carry at least one flashlight with extra batteries. Flashlights are loaned free of charge at the visitor center.

CAVE SOFTLY

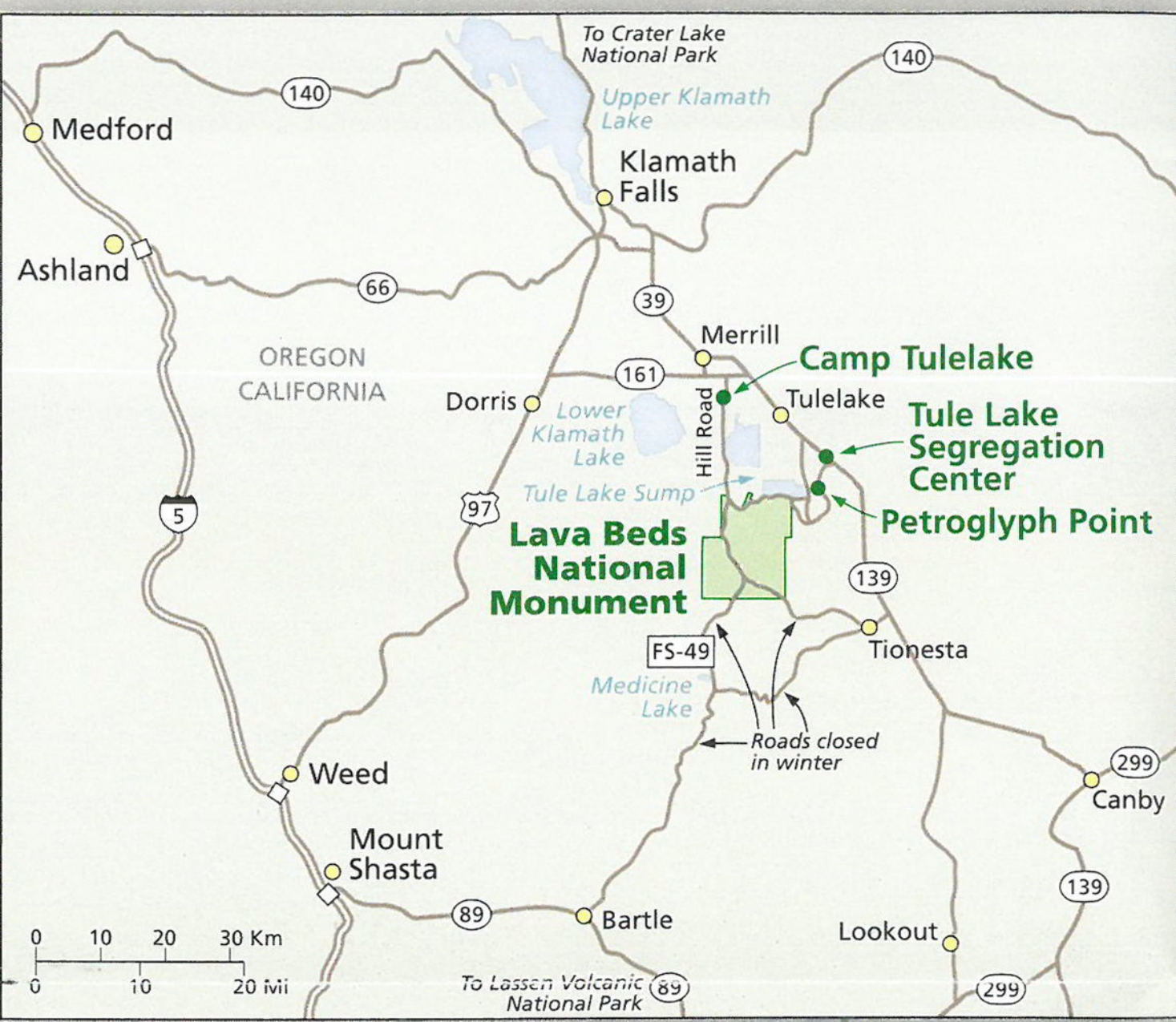
- Caves are amazing, fragile environments. Please take only pictures and leave only footprints. Leave no trace.
- Do not eat, drink, smoke, or leave trash.
- Cave slowly and carefully.
- Do not use caves as bathrooms.
- Stay on the trails.
- Do not touch cultural artifacts, paintings, cave formations, or gold and silver microbial mats.
- Use electric flashlights, not carbide or gas lamps.
- Do not disturb any cave life.
- Pets are not allowed in caves.

Accessibility We strive to make facilities and programs accessible to all. Please call, ask at the visitor center, or go to our website for more information.

For firearms regulations check the park website or ask a park ranger.

Follow us on Facebook and Twitter, and Instagram.

Lava Beds National Monument is one of over 400 parks in the National Park System. Learn more at www.nps.gov.

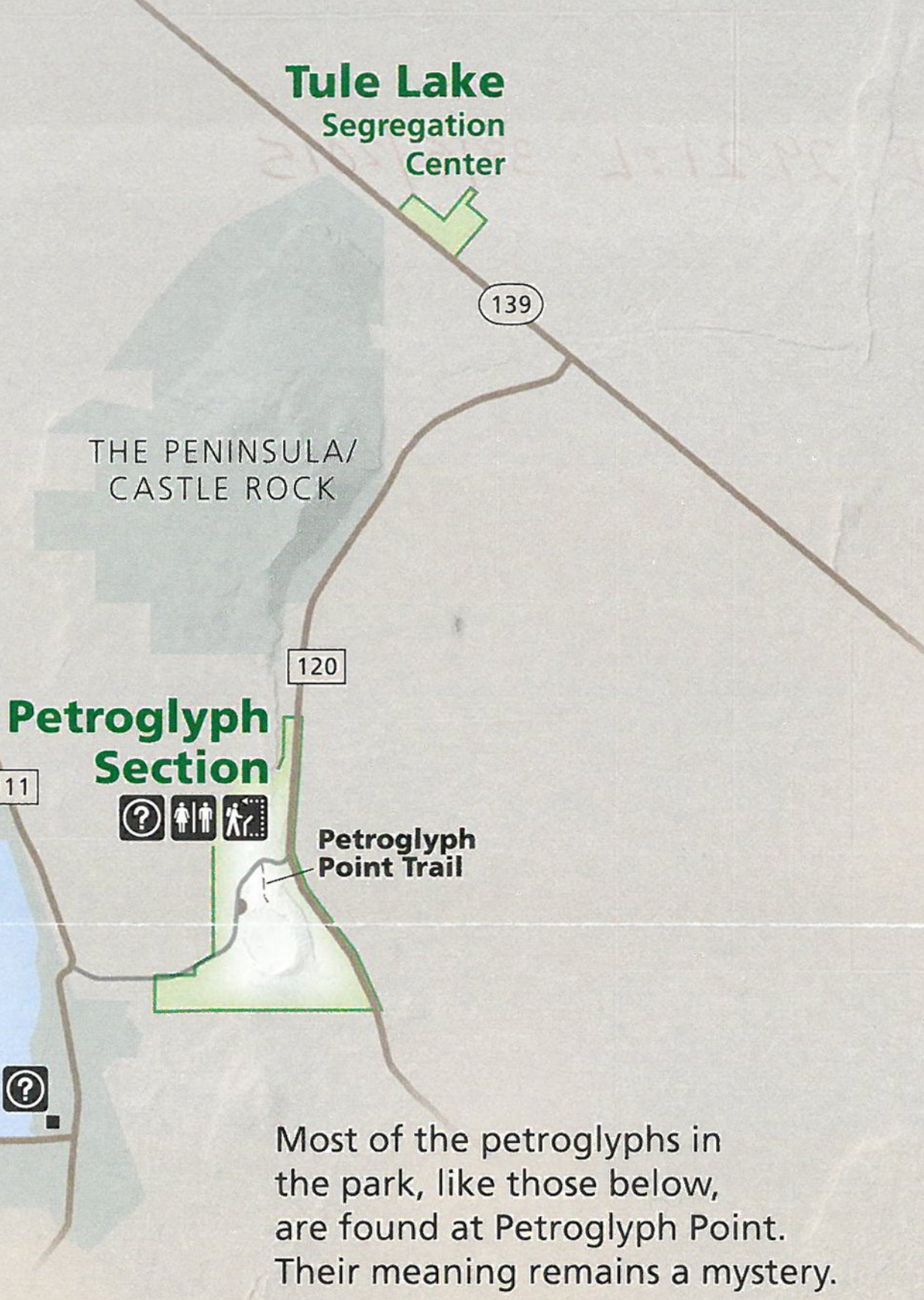


More Information
Lava Beds National Monument
PO Box 1240
1 Indian Well HQ
Tulelake, CA 96134
530-667-8113
www.nps.gov/labe

National Park Foundation.
Join the park community.
www.nationalparks.org



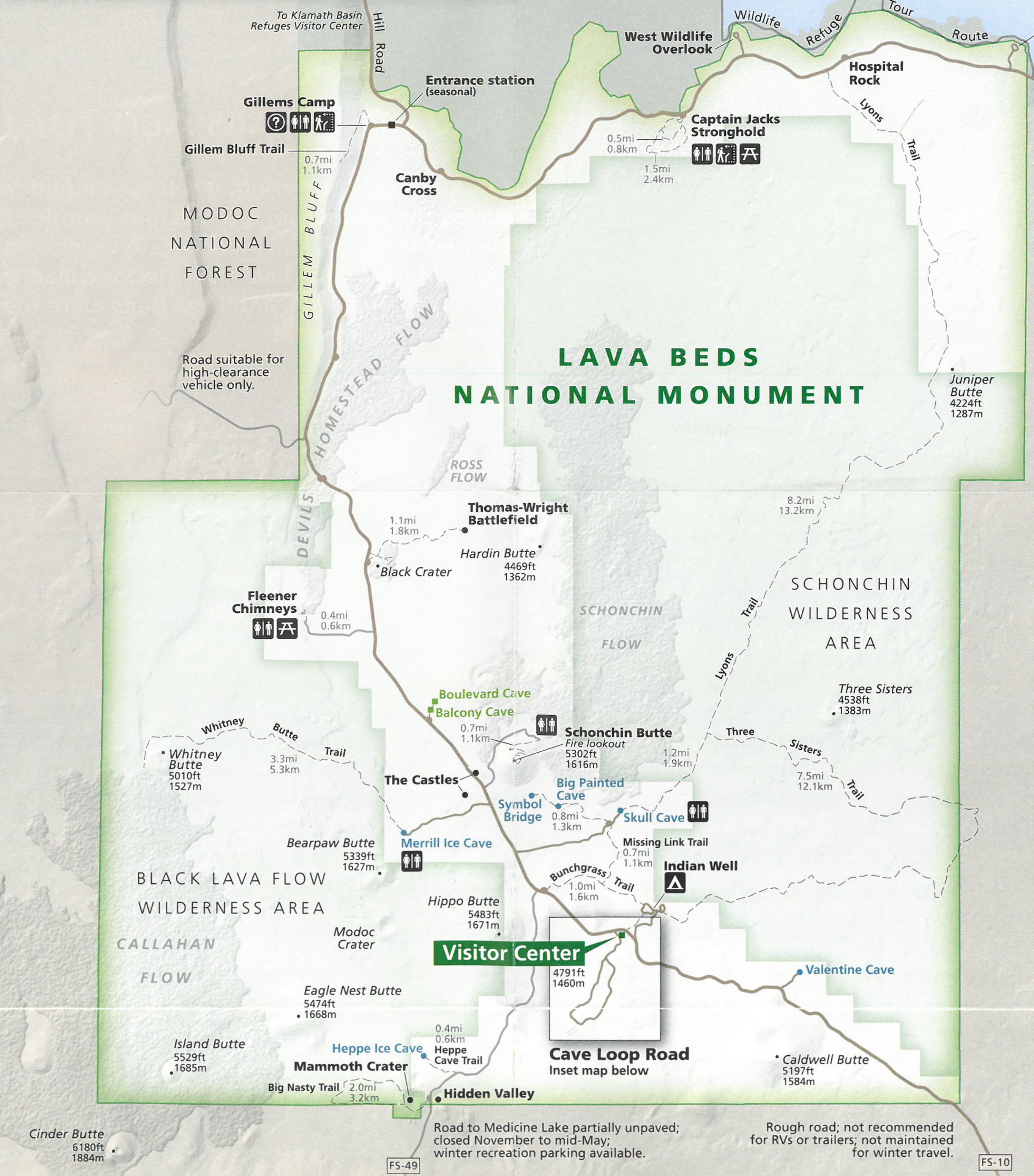
TULE LAKE NATIONAL WILDLIFE REFUGE



Most of the petroglyphs in the park, like those below, are found at Petroglyph Point. Their meaning remains a mystery.



© RON WOLF



MODOC NATIONAL FOREST

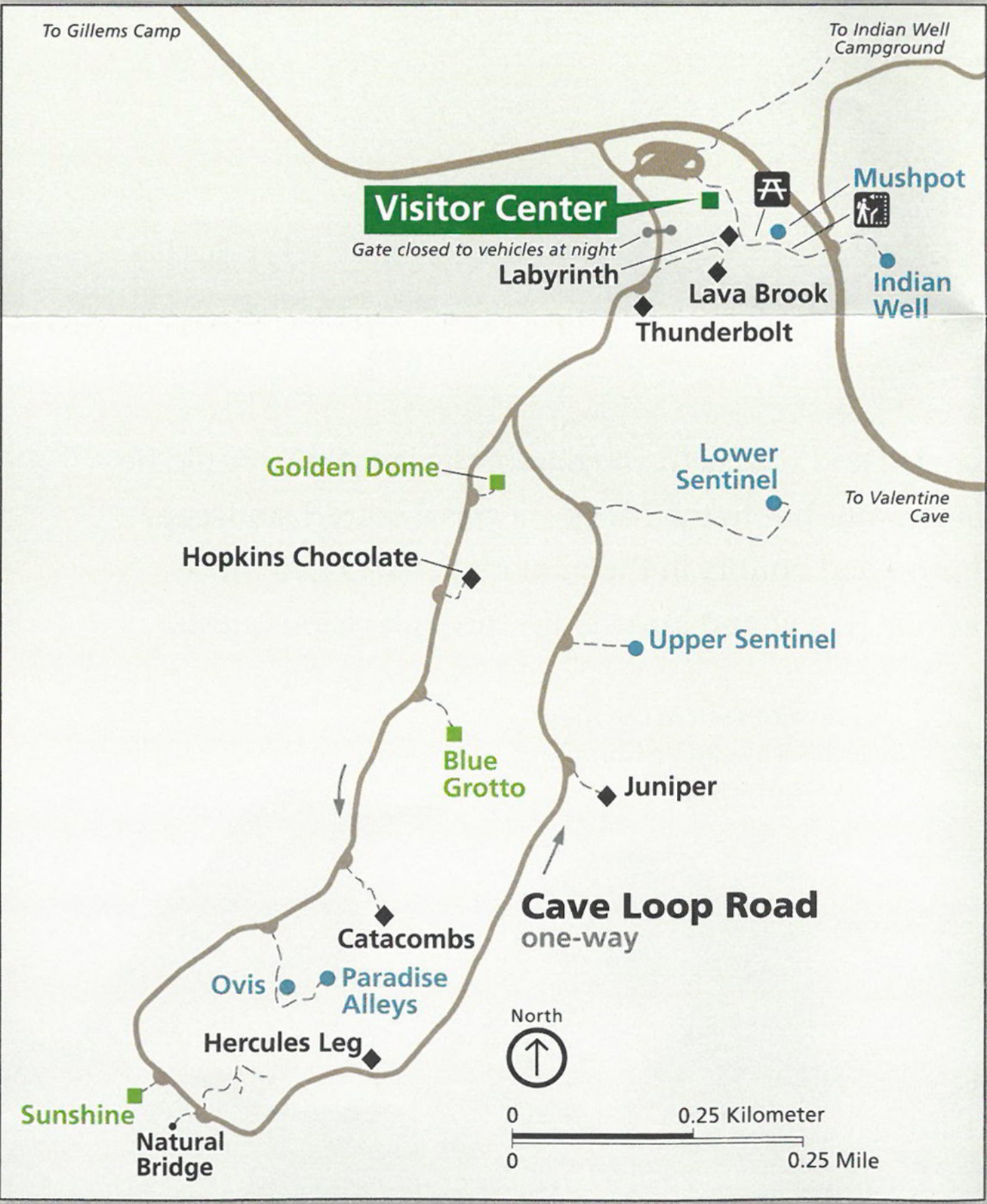
	Turnout		Unpaved road
	Paved road		Trail

	Information kiosk		Picnic area
	Restroom(s)		Campground
	Self-guiding trail		

North

0 1 2 Kilometers
0 1 2 Miles

- Least Challenging** These caves have relatively high ceilings and smoother floors or trails. Safety gear is recommended.
- Moderately Challenging** These caves may involve stooping through low sections and rough floors. Additional safety gear is recommended.
- Most Challenging** These caves have sections that require crawling. Using all recommended safety gear will help protect you from injury.



HELP PROTECT OUR BATS
Get a Permit If you plan on entering any cave in Lava Beds National Monument, stop by the visitor center or fee booth and obtain a permit.

Display your pass in your windshield to show you have been through the screening



White-Nose Syndrome Since 2006, bats have been dying in unprecedented numbers in the eastern United States and Canada from white-nose syndrome, a fatal condition associated with exposure to

process and are helping protect the bats that live here.

If you have gear that has been used in caves or mines in the US, Canada, or Europe, please leave these items at home or in your car. If used, this gear must be properly decontaminated.

fungus. Humans can spread the fungus between caves, mines, and other bat roost sites. Help us prevent the spread of this devastating disease.



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NPS



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